

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A single pass progressive dot printing ink-jet process comprising the steps of:
applying a first UV curable ink drop to a substrate; and
applying a second UV curable ink drop on to the first UV curable ink drop without intermediate solidification of the first UV curable ink drop,
wherein the first and second UV curable ink drops have a different viscosity, surface tension or curing speed.

Claim 2 (currently amended): ~~A~~ The single pass progressive dot printing ink-jet process according to claim 1, wherein subsequent UV curable ink drops are applied sequentially to the combined first and second UV curable ink drops without intermediate solidification of the first and subsequent UV curable ink drops.

Claim 3 (currently amended): ~~A~~ The single pass progressive dot printing ink-jet process according to claim 2, wherein at least four ~~said~~ UV curable ink drops are applied sequentially during a single pass of the substrate.

Claim 4 (currently amended): ~~A~~ The single pass progressive dot printing ink-jet process according to claim 1, wherein the first and second UV curable ink drops are different colors.

Claim 5 (currently amended): ~~A~~-The single pass progressive dot printing ink-jet process according to claim 4, wherein the UV curable ink drops are selected from cyan, magenta, yellow and black.

Claim 6 (currently amended): ~~A~~-The single pass progressive dot printing ink-jet process according to claim 1, wherein the viscosity of the first to the last UV curable ink drops applied varies in a graduated manner within a range of from 10 up to 30 mPa·s or a range of from 30 down to 10 mPa·s.

Claim 7 (currently amended): ~~A~~-The single pass progressive dot printing ink-jet process according to claim 1, wherein the surface tension of the first to the last UV curable ink drops applied varies in a graduated manner within a range of from 20 up to 40 dynes/cm or a range of from 40 down to 20 dynes/cm.

Claim 8 (currently amended): ~~A~~-The single pass progressive dot printing ink-jet process according to claim 1, wherein the cure speed of the first to the last UV curable ink drops applied varies in a graduated manner within a range of from 20 up to 70 m/min or a range of from 70 down to 20 m/min.

Claim 9 (currently amended): A set of UV curable ink-jet inks suitable for use in a single pass progressive dot printing ink-jet process comprising at least ~~two~~ four UV curable inks having a different viscosity, surface tension or curing speed.

Claim 10 (currently amended): ~~A~~-The set of UV curable ink-jet inks according to claim 9, wherein the UV curable inks are selected from cyan, magenta, yellow and black.

Claim 11 (currently amended): ~~A-The set of~~ UV curable ink-jet inks according to claim 9, wherein the viscosity of the UV curable inks varies in a graduated manner within a range of from 10 up to 30 mPa·s or a range of from 30 down to 10 mPa·s.

Claim 12 (currently amended): ~~A-The set of~~ UV curable ink-jet inks as claimed according to claim 9, wherein the surface tension of the UV curable inks varies in a graduated manner within a range of from 20 up to 40 dynes/cm or a range of from 40 down to 20 dynes/cm.

Claim 13 (currently amended): ~~A-The set of~~ UV curable ink-jet inks according to claim 9, wherein the cure speed of the UV curable inks varies in a graduated manner within a range of from 20 up to 70 m/min or a range of from 70 down to 20 m/min.

Claim 14 (currently amended): An ink dispenser holding a set of UV curable ink-jet inks according to claim 9.

Claim 15 (currently amended): ~~A-The single pass progressive~~ dot printing ink-jet process according to claim 2, wherein the first and subsequent UV curable ink drops are each different colors.

Claim 16 (currently amended): A single pass progressive dot printing ink-jet process comprising the steps of:

applying a first UV curable ink drop to a substrate; and
applying a second UV curable ink drop on to the first UV curable ink drop without intermediate solidification of the first UV curable ink drop,
wherein subsequent UV curable ink drops are applied sequentially to the combined first and second UV curable ink drops without intermediate solidification of the first and second UV curable ink drops.

wherein a viscosity of the first to a last UV curable ink drop applied varies in a graduated manner within a range of from 10 up to 30 mPa·s or a range of from 30 down to 10 mPa·s.

Claim 17 (currently amended): A single pass progressive dot printing ink-jet process comprising the steps of:

applying a first UV curable ink drop to a substrate; and

applying a second UV curable ink drop on to the first UV curable ink drop without intermediate solidification of the first UV curable ink drop,

wherein subsequent UV curable ink drops are applied sequentially to the combined first and second UV curable ink drops without intermediate solidification of the first and second UV curable ink drops.

wherein a surface tension of the first to a last UV curable ink drop applied varies in a graduated manner within a range of from 20 up to 40 dynes/cm or a range of from 40 down to 20 dynes/cm.

Claim 18 (currently amended): A single pass progressive dot printing ink-jet process comprising the steps of:

applying a first UV curable ink drop to a substrate; and

applying a second UV curable ink drop on to the first UV curable ink drop without intermediate solidification of the first UV curable ink drop,

wherein subsequent UV curable ink drops are applied sequentially to the combined first and second UV curable ink drops without intermediate solidification of the first and second UV curable ink drops.

wherein a cure speed of the first to a last UV curable ink drop applied varies in a graduated manner within a range of from 20 up to 70 m/min or a range of from 70 down to 20 m/min.

Claim 19 (currently amended): A set of UV curable inkjet inks suitable for use in a single pass progressive dot printing inkjet process comprising at least two UV curable inks having a different viscosity, surface tension or curing speed, wherein the viscosity of the UV curable inks varies in a graduated manner within a range of from 10 up to 30 mPa·s or a range of from 30 down to 10 mPa·s.

Claim 20 (currently amended): A set of UV curable inkjet inks suitable for use in a single pass progressive dot printing inkjet process comprising at least two UV curable inks having a different viscosity, surface tension or curing speed, wherein the surface tension of the UV curable inks varies in a graduated manner within a range of from 20 up to 40 dynes/cm or a range of from 40 down to 20 dynes/cm.

Claim 21 (currently amended): A set of UV curable inkjet inks suitable for use in a single pass progressive dot printing inkjet process comprising at least two UV curable inks having a different viscosity, surface tension or curing speed, wherein the curing speed of the UV curable inks varies in a graduated manner within a range of from 20 up to 70 m/min or a range of from 70 down to 20 m/min.